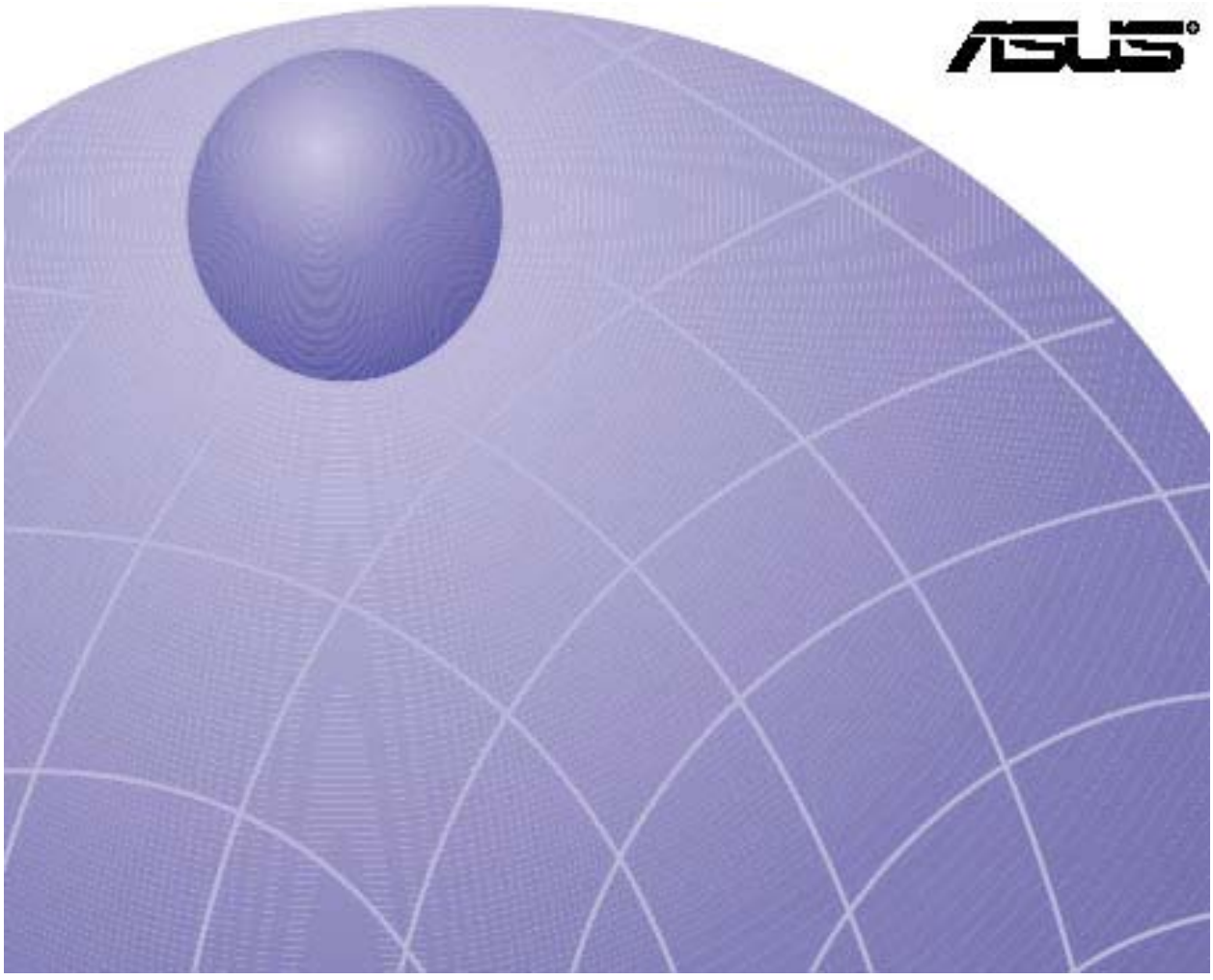
ASUS

AAM6000UG USB ADSL Modem User Guide

Version 2.1
For Software Version 9.5



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1 Preface

This preface guide you how the document is organized, the purpose of this document and it conventions. It includes the following topic:

- Purpose
- Organization
- Conventions

Purpose

The purpose of this guide is to provide detailed information and description about how to configure the AAM6000UG USB ADSL Modem and contains comprehensive configuration examples.

Organization

This guide contains the following information:

- Preface
- Introduction
- Hardware Installation
- Modem Setup and Driver Installation
- Advanced Control Menu
- Remove and Upgrade

Conventions

This section describes the conventions used in this guide.

✓ **– Indicate the attention or any notices caution relay on the topical subjects.**

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2 Introduction

This chapter provides a general overview of AAM6000UG USB Modem. It covers the key features and main applications of your Modem.

- Overview
- Feature
- System Requirements

Overview

Thanks you for purchasing this ADSL Modem. This ADSL Modem delivers the highest performance in Asymmetric Digital Subscriber Line technology, allowing you to simultaneously enjoy telephone and Internet service using existing copper phone lines. Ideal for home and small business users, this existing copper phone lines, Ideal for home and small business users, this easy-to-use ADSL Modem offers reliable connectivity and remarkable data transfer rates. Once the ADSL Modem is online, you can enjoy real-time 3D animation, video conferencing, or perform other data intensive operations.

Features

Software Feature

- Supports RFC 2346 protocol (PPP over ATM), RFC 2516 (PPP over Ethernet), RFC 1483 encapsulation (multiple protocol over ATM AAL5), and TFC 1577 protocol (classical IP over ATM)
- Software upgrade
- User Maintenance

System Requirements

The AAM6000UG ADSL Modem requires that your computer has a USB (Universal Series Bus) 1.1 or 2.0 compatible port.

✓ **You must have your USB port free and capable to use before connect to AAM6000UG ADSL Modem, USB Hub or other extend USB device are not recommend to connect with AAM6000UG ADSL Modem.**

Operating System Support

- Windows 98SE
- Windows ME
- Windows 2000
- Windows XP
- Windows 2003 Server

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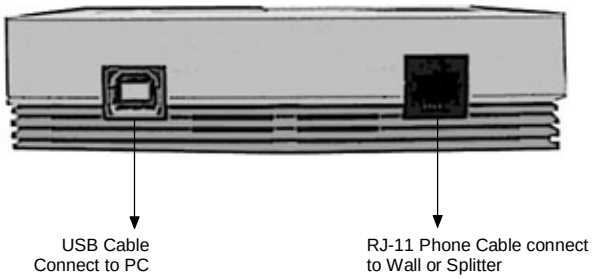
3 Hardware Installation

This chapter introduces the ports and LED indicators.

- Hardware Overview
- USB Connectors
- Splitter Installation
- Front Panel LEDs

Hardware Overview

Have your system operating disk or CD handy during the installation, in case a specific file can not be found on your computer due to installation.



The back panel has two interfaces:

- **USB – Connecting to PC USB port**
- **LINE – Connecting RJ-11 Phone cable to Phone Jack or Splitter**

Parts List

AAM6000UG USB Modem

Splitter

RJ-11 Phone Cable

USB Cable

Quick Installation Guide (Optional)

Installation CD

USB Connectors

See the following figure for an explanation of USB connectors.

This cable end will plug into your Modem's USB port

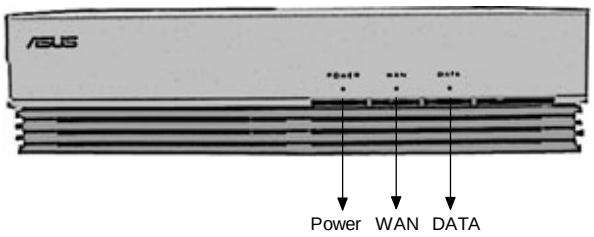
This cable end will plug into your computer's USB port

Splitter Installation

Use a Splitter in order to plug a phone into the same telephone line.

- Modem port – connect to USB Modem
- Phone port – connect to Phone Set
- Line port – connect to telephone wall jack or out line

Front Panel LEDs



LED	Color	Status	Description
POWER	Yellow	On	USB is connected and receives power.
		Off	Modem's USB port is not connected or not receiving power.
WAN	Yellow	On	DSL link is up.
		Blinking	DSL in Handshaking training status.
		Off	No DSL connection.
DATA	Yellow	Blinking	Data transfer over DSL line.

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4 Modem Setup and Driver Installation

This chapter shows you how to set up your Modem for ADSL Internet access.

- Prepare to Install the DSLMON Software and USB Driver
- MPoA Bridge or Routed Setting
- PPPoA or PPPoE Setting
- Connection Status Monitoring

Prepare to Install the DSLMON Software and USB Driver

Before install the AAM6000UG USB ADSL Modem, you should have information below from your Internet Service Provide (ISP) or Telephone Company. Once the information has confirmed, you may now choose one of the installation type, "**MPoA Bridge/Routed**" or "**PPPoA/PPPoE**", follow by the sections below to complete driver installation.

MPoA Bridge/Routed Needed Information

Required Information	Default Value	Fill in the Blanks
VPI: The Virtual Path Identifier number identifies a bundle of virtual channels.	8	
VCI: The Virtual Path Identifier number identifies a logical connection between end stations.	35	
Framing Type & Encapsulation: Bridge LLC/VC MUX or Route LLC/VC MUX	Bridge LLC	
Connection Standard: ANSI T1.413, G.lite, G.dmt, Multi-Standard	Multi-Standard	
IP address: (When using Static IP) The IP address given from your ISP.	Automatically	
Subnet Mask: (When using Static IP) The subnet Mask given from your ISP.	Automatically	
Default Gateway: (When using Static IP) The default gateway given from your ISP.	Automatically	
Preferred DNS Server: (When using Static IP) Primary DNS server IP given from your ISP.	Automatically	
Alternate DNS Server: (When using Static IP) Secondary DNS server IP given from your ISP.	Automatically	

PPPoA/PPPoE Needed Information

Required Information	Default Value	Fill in the Blanks
VPI: The Virtual Path Identifier number identifies a bundle of virtual channels.	8	
VCI: The Virtual Path Identifier number identifies a logical connection between end stations.	35	
Framing Type & Encapsulation: Bridge LLC/VC MUX or Route LLC/VC MUX	Bridge LLC	
Connection Standard: ANSI T1.413, G.lite, G.dmt, Multi-Standard	Multi-Standard	
User Name and Password: Let your ISP know which account you are loggin into and protects your account from unauthorized users.	N/A	

MPoA Bridge or Routed Setting

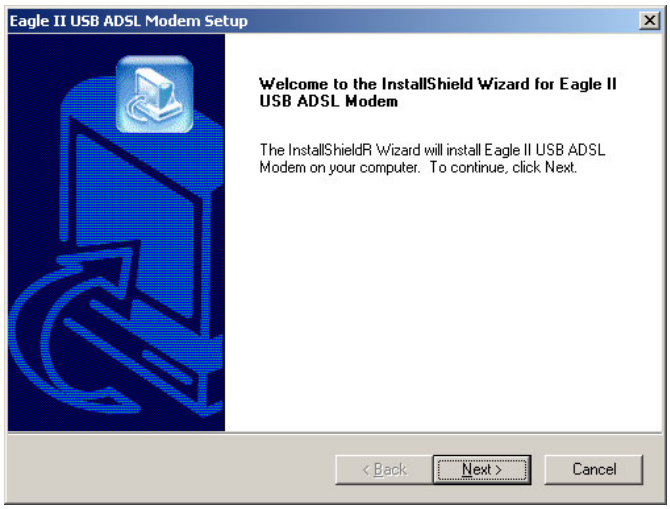
✓ **DO NOT connect the modem to your computer at this time.**

Step 1 Close all Windows programs and applications.

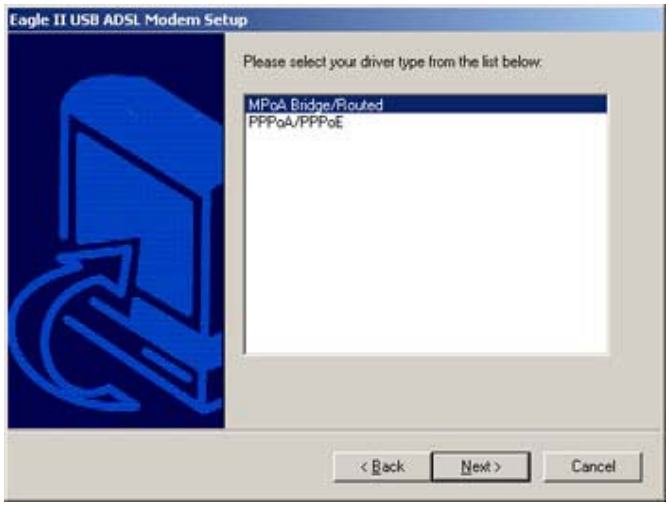
Step 2 Insert the CD that came with your Modem into your computer. It should automatically run the driver setup program. If the setup is not automatically run, you can open the CD on your computer and double click the **Setup.exe** icon

Step 3 When the following window appears, click **OK**.

Step 4 When “Eagle II USB ADSL Modem Setup window” appears, click **Next**.



Step 5 Next, select the “**MPoA Bridge/Routed**” as driver type and click **Next**.



Step 6 Screens pop up to report the progress of the installation. You do not need to click anything until installation complete, selected “Yes, I want to restart my computer now”, and click **Finish** to have your computer restart.

Step 7 After system restarted, you can now connect USB Modem to your PC, several screens pop up to inform USB driver installation progress, when the following window appear, click **OK**.

Setting Up USB Network IP Address

This section is relevant when you select **MPoA Bridge/Routed** driver type using a given IP address on.

✓ **Please have your AAM6000UG USB ADSL Modem connecting to PC.**

Follow the steps to set up your USB computer to use a static IP address given by your ISP. Window XP screen shots are shown. Steps and screen shots may very depend on the version of Windows.

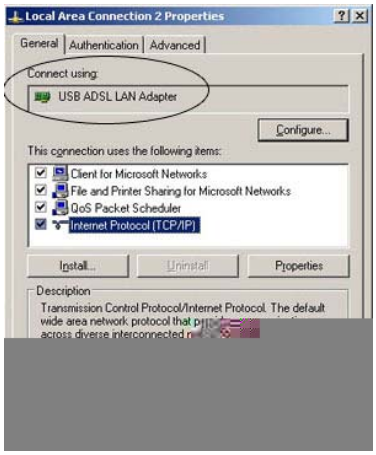
Step 1 Click Start → Control Panel → Network and Internet Connection → Network Connections.

Step 2 Double click on the Network Connection icon to open the window screen.

✓ **The follow screen may very from this user guide depending on your MS Windows version.**

Step 3 Right-click on the icon that corresponds to your new USB connection "USB ADSL LAN Adapter" (not the one that corresponds to your Ethernet NIC) and select **Properties**.

Step 4 In the Properties screen, make sure the **Connect Using** field displays "USB ADSL LAN Adapter".



Step 5 Select **Internet Protocol (TCP/IP)** and click **Properties**.

Step 6 Click **Use the following IP address** and fill in the IP address (given by your ISP), Subnet mask, and Default gateway fields; as same as DNS server address (given by your ISP).

5 Advanced Control Menu

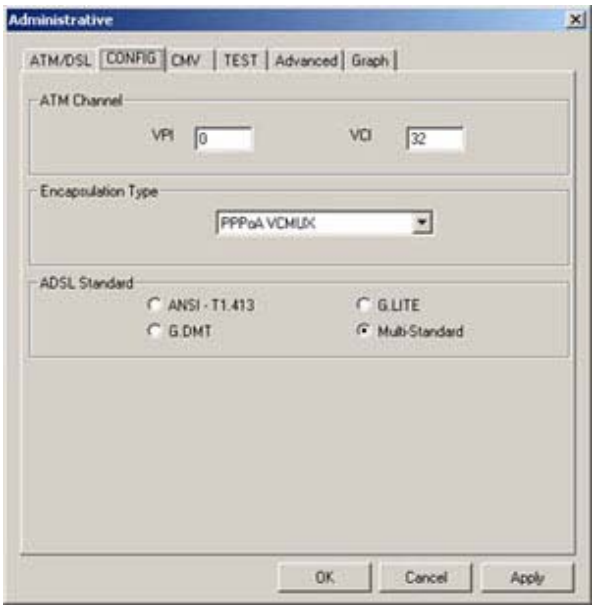
This chapter shows you how to view advanced modem information.

- General Configuration
- Viewing General Statistics
- Advanced Debugging

General Configuration

Step 1 Double click on the DSLMON icon.

Step 2 Press the **ALT** and **D** keys simultaneously to bring up the following window. This is **CONFIG** tab for the ATM VPI/VCI and encapsulation setting.



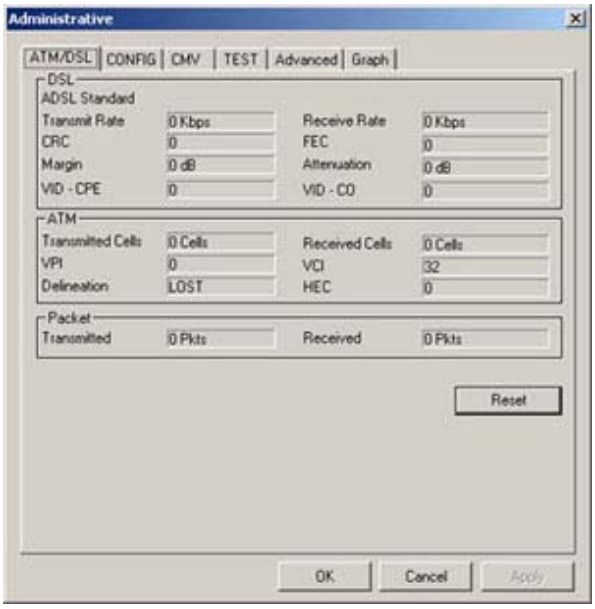
The following table describes the labels in this **CONFIG** window.

LABEL	Description
ATM Channel	These are the Virtual Path and Virtual Channel identifiers.
Encapsulation Type	This shows the mode of encapsulation chosen during Modem installation.
ADSL Standard	ADSL connection modulation type used to establish physical communications with the DSL provider.

Viewing General Statistic

ATM and DSL Status

Click the **ATM/DSL** tab to view ATM-related statistics as seen in this window. These statistics refer to data collected on the active virtual channels.

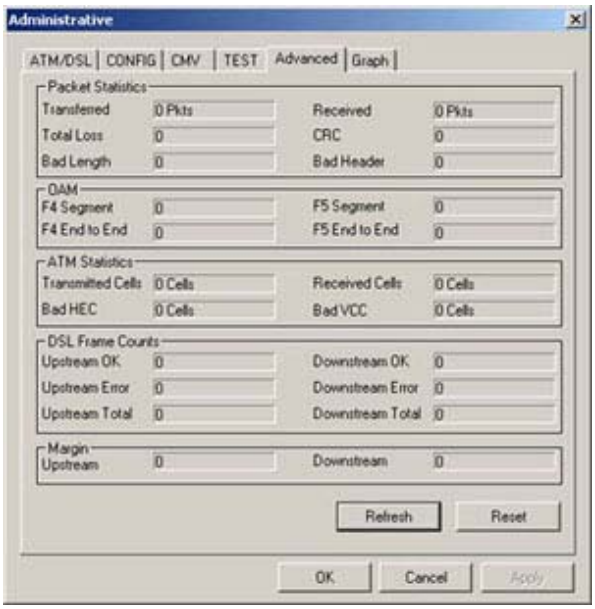


The following table describes the labels in this window.

LABEL	Description
DSL	This is the information of ADSL physical status.
ATM	This is the information of ATM cell layer status.
Packet	This is the information of Ethernet layer packet status.

Advanced of AAL Link Status

Click **Advanced** tab to view AAL (ATM Adapt Layer) related statistics as seen in this window.



The following table describes the labels in this window.

LABEL	Description
Packet Statistics	This is the total number of AAL 5 layer packet statistics.
OAM	This is the total number of ATM OAM cell statistics.
ATM Statistics	This is the total number of ATM cell statistics.
DSL Frame Counts	This is the total number of ADSL Frame counters.
Margin	This is upstream and downstream margin values.

Advanced Debugging

CMV, **TEST**, and **Graph** tabs are for engineering debugging only, you may not needs to viewing or configuring in advice.

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6 Remove and Upgrade

This chapter tells how to uninstall and reinstall your Modem's software driver.

- Remove versus Upgrade the Modem Driver
- Remove Procedure
- Upgrade Procedure
- Rollback Procedure

Remove versus Upgrade the Modem Driver

Remove the Modem driver if you are no longer to using the AAM6000UG USB Modem, Upgrade and Rollback the Modem driver if you are having trouble with current version.

Remove Procedure

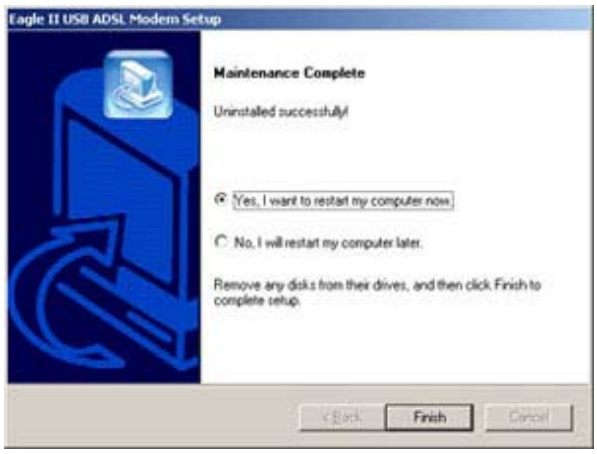
Follow these steps to completely remove your Modem's software driver.

Step 1 Close all windows programs and application.

Step 2 Make sure the Installation CD is in your computer, Double click the **Setup.exe** icon as you did when you first set up the Modem. The "Eagle II USB ADSL Modem Setup" window appears. Select **Remove all install components** and click **Next**.

Step 3 Click **OK** to confirm the remove process.

Step 4 You may needs to restart your computer to accomplish the remove process, select “Yes, I want to restart my Computer now”, and click **Finish**.



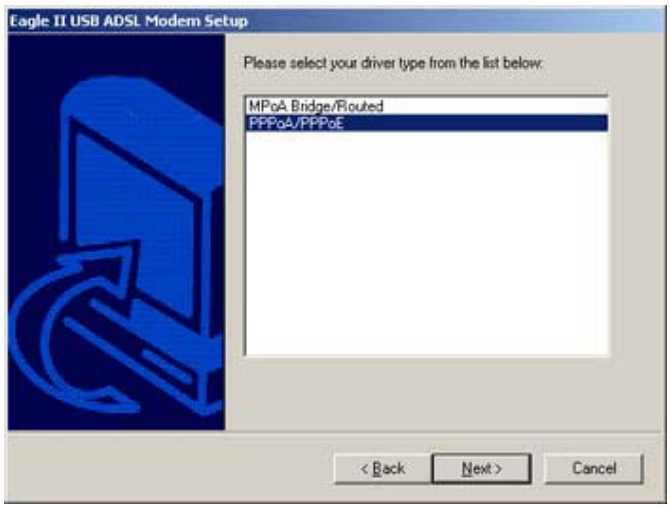
Upgrade Procedure

Follow these steps to completely upgrade your Modem’s software driver.

Step 1 Close all windows programs and application.

Step 2 Make sure the Installation CD is in your computer, Double click the **Setup.exe** icon as you did when you first set up the Modem. The “Eagle II USB ADSL Modem Setup” window appears. Select **Upgrade to the new driver** and click **Next**.

Step 3 **S**elect the "**PPPoA/PPPoE**" as driver type and click **Next**.



Step 4 You may needs to restart your computer to accomplish the remove process, select "Yes, I want to restart my Computer now", and click **Finish**.

Rollback Procedure

Follow these steps to completely Rollback to old driver of your Modem's software driver.

Step 1 Close all windows programs and application.

Step 2 Make sure the Installation CD is in your computer, Double click the **Setup.exe** icon as you did when you first set up the Modem. The "Eagle II USB ADSL Modem Setup" window appears. Select **Rollback to the old driver** and click **Next**.

Step 3 You may needs to restart your computer to accomplish the remove process, select "Yes, I want to restart my Computer now", and click **Finish**.

Appendix A

ADSL-Related Acronyms

ADSL	Asymmetric High bit rate Digital Subscriber Line
ANSI	American National Standards Institute
ARP	Address Resolution Protocol
ATM	Asynchronous Transfer Protocol
BootP	Bootstrap Protocol
CHAP	Challenge-Handshake Authentication Protocol
DHCP	Dynamic Host Configuration Protocol
DMT	Discrete Multi-Tone
DSLAM	Digital Subscriber Line Access Multiplexer
IETF RFC	Internet Engineering Task Force Request for Comments
IPCP	Internet Protocol Control Protocol
IPoA	IP over ATM
ITU	International Telecommunication Union
ITU-T	ITU Telecommunication Standardization Sector
MAC (address)	Media Access Control (address)
MPoA	Multi Protocol Encapsulation over ATM Adaptation Layer 5
NAT	Network Address Translation
PAP	Password Authentication Protocol
POTS	Plain Old Telephone Service
POP	Point-to-Point Protocol
PPPoA	PPP over ATM Adaptation Layer 5
PPPoE	PPP over Ethernet
PSTN	Public Switched Telephone Network
PVC	Permanent Virtual Connection
Telco	Telephone Company
TCP/IP	Transmission Control Protocol / Internet Protocol
TFTP	Trivial File Transfer Protocol
VCI	Virtual Circuit Identifier
VPI	Virtual Path Identifier
WAN	Wide Area Network

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